



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE	
<b>INFORMATION DISCLOSURE STATEMENT</b>	
Atty. Docket No. <b>UBAT1350</b>	
Applicant <b>Merkulov, et al.</b>	
Application Number <b>10/068,795</b>	Filed <b>February 6, 2002</b>
For <b>CONTROLLED ALIGNMENT OF CATALYTICALLY GROWN NANOSTRUCTURES IN A LARGE-SCALE SYNTHESIS PROCESS</b>	
Group Art Unit <b>2812</b>	Examiner <b>Unknown</b>

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

**Certificate of Mailing Under 37 C.F.R. 1.8**  
I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: Asst. Commissioner for Patents, Washington, D.C. 20231 on Aug. 30, 2002.  
*Janice Pampell*  
Janice Pampell

Applicant respectfully requests, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the art listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified application. A copy of the art is enclosed for the convenience of the Examiner. Furthermore, pursuant to 37 C.F.R. §§ 1.97(g) and (h), no representation is made that a search has been made or that this art is material to the patentability of the present application.

If any fees are inadvertently omitted, or if any additional fees are required, or if any amounts have been overpaid, please appropriately charge or credit those fees to Deposit Account No. 50-0456 of Gray Cary Ware & Freidenrich, LLP.

Respectfully submitted,

**Gray Cary Ware & Freidenrich LLP**  
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FORM PTO 1449 US Department of Commerce Patent and Trademark Office SEP 10 4 2002 PATENT TRADEMARK OFFICE				Application Number	10/068,795
				Filing Date	February 2, 2002
				First Named Inventor	Merkulov, et al.
				Group Art Unit	2812
				Examiner Name	Unknown
Sheet 1 of 1	Attorney Docket Number	UBAT1350			
<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials	Cite No.	Document Number		Publication Date	Name of Patentee or Applicant of Cited Document
		Number	Kind Code (if known)	MM-DD-YYYY	
	A1				
	A2				
	A3				
<b>FOREIGN PATENT DOCUMENT</b>					
Examiner Initials	Cite No.	Country Code	Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document
	B1			Publication Date MM-DD-YYYY (Number 43)	
	B2				
	B3				
<b>OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			Date
	C1	Collins, et al. "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown" <a href="http://www.science.org">www.science.org</a> , Vol. 292, pp. 706-709.			04/27/01
	C2	Rueckes, et al. "Carbon-Nanotube-Based Nonvolatile Random Access Memory for Molecular Computing" <a href="http://www.science.org">www.science.org</a> , Vol. 289, pp. 94-94-97.			07/07/00
	C3	Choi, et al. "Fully sealed, high-brightness carbon-nanotube field-emission display", Applied Physics Letters, Vol. 75, No. 20, pp. 3129-3131.			11/15/99
	C4	Steven, et al. "Improved fabrication approach for carbon nanotube probe devices," Applied Physics Letters, Vol. 77, No. 21, pp. 3453-3455.			11/20/00
	C5	Guillom, "Fabrication of gated cathode structures using an <i>in situ</i> grown vertically aligned carbon nanofiber as a field emission element", Journal of Vacuum Science, pp. 573-578.			Mar/Apr. 2001
	C6	Merkulov, et al. "Shaping carbon nanostructures by controlling the synthesis process," Applied Physics Letters, Vol. 79, No. 8, pp. 1178-1180.			08/20/01
	C7	Merkulov, et al. "Patterned growth of individual and multiple vertically aligned carbon nanofibers," Applied Physics Letters, Vol. 76, No. 24, pp. 3555-3557.			06/12/00
	C8	Chen, et al. "Field emission of different oriented carbon nanotubes," Applied Physics Letters, Vol. 76, No. 17, pp. 2469-2471.			04/24/00
	C9	Baker, "Catalytic Growth of Carbon Filaments," Carbon, Vol. 27, No. 3, pp. 315-323.			10/24/88
	C10	Merkulov, et al. "Alignment mechanism of carbon nanofibers produced by plasma-enhanced chemical-vapor deposition," Applied Physics Letters, Vol. 79, No. 18, pp. 2970-2972.			10/29/01
	C11	Ren, et al. "Growth of a single freestanding multiwall carbon nanotube on each nanonickel dot," Applied Physics Letters, Vol. 75, No. 8, pp. 1086-1088.			08/23/99
Examiner Signature				Date Considered	